Fundamentals of Aeronautics (145-176)  Airplane Control(209- 256)  Tools of Aeronautics(257-326)  Tools of	State AZ	Grade Level Articu				
Grade 5 Activity/Lesson  Fundamentals of Aeronautics (145-176)  Airplane Control(209- 256)  Tools of Aeronautics(257-326)  Tools of			Jiations			
Grade 5 Activity/Lesson  Fundamentals of Aeronautics (145-176)  Airplane Control(209- 256)  Tools of Aeronautics(257-326)  Tools of		Standards				
Activity/Lesson  Fundamentals of Aeronautics (145-176)  Airplane Control(209- 256)  Tools of Aeronautics(257-326)  Tools of		Standards				
Fundamentals of Aeronautics (145-176)  Airplane Control(209- 256)  Tools of Aeronautics(257-326)  Tools of		Standards				
Aeronautics (145-176) Airplane Control(209- 256) Tools of Aeronautics(257-326) Tools of	AZ		Describe the various effects forces can have on			
Aeronautics (145-176) Airplane Control(209- 256) Tools of Aeronautics(257-326) Tools of	AZ	1				
Airplane Control(209- 256) Tools of Aeronautics(257-326)	AZ	00155000	an object (e.g., cause motion, halt motion,			
256) Tools of Aeronautics(257-326) Tools of		SCI.5.5.2.PO 2	change direction of motion, cause deformation).			
256) Tools of Aeronautics(257-326) Tools of			Describe the various effects forces can have on			
Tools of Aeronautics(257-326)  Tools of	A 7	001 5 5 0 00 0	an object (e.g., cause motion, halt motion,			
Aeronautics(257-326)  Tools of	AZ	SCI.5.5.2.PO 2	change direction of motion, cause deformation).			
Tools of	. 7	SCI.5.1.4.PO	Choose an appropriate graphic representation			
	AZ	2.d	for collected data (model)			
			Design and construct a technological solution to			
Aeronautics(257-326)			a common problem or need using common			
	AZ	SCI.5.3.2.PO 3	materials.			
			Describe the various effects forces can have on			
			an object (e.g., cause motion, halt motion,			
	AZ	SCI.5.5.2.PO 2	change direction of motion, cause deformation).			
The Tools of		SCI.5.1.4.PO	Choose an appropriate graphic representation			
Aeronautics	AZ	2.d	for collected data (model)			
			Formulate a relevant question through			
			observations that can be tested by an			
Science of Flight	AZ	SCI.5.1.1.PO 1	investigation.			
			Formulate predictions in the realm of science			
			based on observed cause and effect			
Science of Flight	AZ	SCI.5.1.1.PO 2	relationships.			
			Conduct simple investigations (e.g., related to			
			forces and motion, earth processes) based on			
			student-developed questions in life, physical,			
Science of Flight	AZ	SCI.5.1.2.PO 3	and earth and space sciences.			
			Analyze data obtained in a scientific			
			investigation to identify trends and form			
Science of Flight	AZ	SCI.5.1.3.PO 1	conclusions.			
			Formulate a relevant question through			
Scientific Method(124-			observations that can be tested by an			
144)	AZ	SCI.5.1.1.PO 1	investigation.			
Scientific Method(124-			Plan a simple investigation that identifies the			
144)	AZ	SCI.5.1.2.PO 2	variables to be controlled.			
			Analyze data obtained in a scientific			
Scientific Method(124-			investigation to identify trends and form			
144)	AZ	SCI.5.1.3.PO 1	conclusions.			
			Analyze whether the data is consistent with the			
Scientific Method(124-			proposed explanation that motivated the			
, ,	AZ	SCI.5.1.3.PO 2	investigation.			
			Develop new investigations and predictions			
Scientific Method(124-			based on questions that arise from the findings			
	AZ	SCI.5.1.3.PO 4	of an investigation.			
		Exploring Aeron	autics			
2004 Science						

Arizona Science			
Grade 6			
Activity/Lesson	State	Standards	
			Differentiate among a question, hypothesis, and
Science of Flight	AZ	SCI.6.1.1.PO 1	prediction.
			Formulate questions based on observations that
Science of Flight	AZ	SCI.6.1.1.PO 2	lead to the development of a hypothesis.
			Display data collected from a controlled
Science of Flight	AZ	SCI.6.1.4.PO 2	investigation.
			Communicate the results and conclusion of the
Science of Flight	AZ	SCI.6.1.4.PO 5	investigation.
Integrating with			Interpret simple tables and graphs produced by
Aeronautics	AZ	SCI.6.1.3.PO 4	others.
Scientific Method(124-			Differentiate among a question, hypothesis, and
144)	AZ	SCI.6.1.1.PO 1	prediction.
Scientific Method(124-			Formulate questions based on observations that
144)	AZ	SCI.6.1.1.PO 2	lead to the development of a hypothesis.
Scientific Method(124-		00104000	Design an investigation to test individual
144)	AZ	SCI.6.1.2.PO 2	variables using scientific processes.
Scientific Method(124-		00104000	Evaluate the observations and data reported by
144)	AZ	SCI.6.1.3.PO 3	others.
		Exploring Aerona	
		2004 Science	
Arizona Science	G	rade Level Articu	liations
Grade 7			
Activity/Lesson	State	Standards	
Activity/Lesson	Otato	Otaridards	Formulate questions based on observations that
Science of Flight	AZ	SCI.7.1.1.PO 1	lead to the development of a hypothesis.
Colonico or r light		001.7.11.11.1	Explain the role of a hypothesis in a scientific
Science of Flight	AZ	SCI.7.1.1.PO 3	inquiry.
			Conduct a controlled investigation, utilizing
			multiple trials, to test a hypothesis using
Science of Flight	l		
	AZ	SCI.7.1.2.PO 3	
	AZ	SCI.7.1.2.PO 3	scientific processes.
			scientific processes.  Analyze results of data collection in order to
Science of Flight	AZ AZ	SCI.7.1.2.PO 3 SCI.7.1.3.PO 3	scientific processes.
Science of Flight		SCI.7.1.3.PO 3	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.
Science of Flight Science of Flight	AZ AZ		scientific processes.  Analyze results of data collection in order to
Science of Flight	AZ AZ	SCI.7.1.3.PO 3	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that
Science of Flight Science of Flight Scientific Method(124-	AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.
Science of Flight Science of Flight Scientific Method(124-	AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.
Science of Flight Science of Flight Scientific Method(124- 144) Scientific Method(124- 144)	AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.
Science of Flight Science of Flight Scientific Method(124- 144) Scientific Method(124-	AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the
Science of Flight Science of Flight Scientific Method(124- 144) Scientific Method(124- 144) Scientific Method(124- 144)	AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.
Science of Flight Science of Flight Scientific Method(124- 144) Scientific Method(124- 144) Scientific Method(124-	AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual
Science of Flight Science of Flight Scientific Method(124- 144) Scientific Method(124- 144) Scientific Method(124- 144)	AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual variables using scientific processes.
Science of Flight Science of Flight Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-	AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1 SCI.7.1.1.PO 2 SCI.7.1.1.PO 3	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual variables using scientific processes.  Conduct a controlled investigation, utilizing
Science of Flight Science of Flight Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144)	AZ AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1 SCI.7.1.1.PO 2 SCI.7.1.1.PO 3 SCI.7.1.2.PO 2	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual variables using scientific processes.  Conduct a controlled investigation, utilizing multiple trials, to test a hypothesis using
Science of Flight Science of Flight Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144)	AZ AZ AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1 SCI.7.1.1.PO 2 SCI.7.1.1.PO 3	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual variables using scientific processes.  Conduct a controlled investigation, utilizing multiple trials, to test a hypothesis using scientific processes.
Science of Flight Science of Flight Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144) Scientific Method(124-144)	AZ AZ AZ AZ AZ AZ	SCI.7.1.3.PO 3 SCI.7.1.3.PO 5 SCI.7.1.1.PO 1 SCI.7.1.1.PO 2 SCI.7.1.1.PO 3 SCI.7.1.2.PO 2	scientific processes.  Analyze results of data collection in order to accept or reject the hypothesis.  Formulate a conclusion based on data analysis.  Formulate questions based on observations that lead to the development of a hypothesis.  Select appropriate resources for background information related to a question, for use in the design of a controlled investigation.  Explain the role of a hypothesis in a scientific inquiry.  Design an investigation to test individual variables using scientific processes.  Conduct a controlled investigation, utilizing multiple trials, to test a hypothesis using

Exploring Aeronautics 2004 Science							
Arizona Science							
Grade 8							
Activity/Lesson	State	Standards					
			Formulate questions based on observations that				
Science of Flight	AZ	SCI.8.1.1.PO 1	lead to the development of a hypothesis.				
			Use appropriate research information, not				
			limited to a single source, to use in the				
Science of Flight	AZ	SCI.8.1.1.PO 2	development of a testable hypothesis.				
Science of Flight	AZ	SCI.8.1.1.PO 3	Generate a hypothesis that can be tested.				
			Design a controlled investigation to support or				
Science of Flight	AZ	SCI.8.1.2.PO 2	reject a hypothesis.				
			Conduct a controlled investigation to support or				
Science of Flight	AZ	SCI.8.1.2.PO 3	reject a hypothesis.				
Scientific Method(124-			Formulate questions based on observations that				
144)	AZ	SCI.8.1.1.PO 1	lead to the development of a hypothesis.				
			Use appropriate research information, not				
Scientific Method(124-			limited to a single source, to use in the				
144)	AZ	SCI.8.1.1.PO 2	development of a testable hypothesis.				
Scientific Method(124-							
144)	AZ	SCI.8.1.1.PO 3	Generate a hypothesis that can be tested.				
Scientific Method(124-			Design a controlled investigation to support or				
144)	AZ	SCI.8.1.2.PO 2	reject a hypothesis.				
Scientific Method(124-			Conduct a controlled investigation to support or				
144)	AZ	SCI.8.1.2.PO 3	reject a hypothesis.				